EPA WORK ASSIGNMENT NO.: 076-2JZZ
EPA CONTRACT NO.: 68-W8-0110
FOSTER WHEELER ENVIRONMENTAL CORPORATION
ARCS II PROGRAM

FINAL
SITE INSPECTION PRIORITIZATION (SIP)
BROCKWAY MOTOR TRUCK SITE
CORTLAND
CORTLAND COUNTY, NEW YORK
CERCLIS NO: NYD980203111

SEPTEMBER 1995

VOLUME II OF II

NOTICE

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RECOMMENDATIONS

The overall score for the Brockway Motor Trucks site is 1.20 based on a potential-to-release to groundwater, and surface water pathways. The soil exposure pathway was not evaluated as there are no areas of observed contamination. The air pathway was not evaluated as the source identified at the site is covered by a building which precludes the release of gas and/or particulate.

The groundwater pathway score is 2.40, evaluated on a potential-to-release basis. The on-site monitoring wells that were sampled in 1987 by NUS indicate contamination of lead in the groundwater. However, QA/QC data is not available to document an observed release.

The surface water pathway score is 0.03, based on the groundwater to surface water component. The pathway was evaluated on a potential-to-release basis. Surface water flow is toward the Tioughnioga River which is located approximately 1/2 mile east of the site. The primary surface water targets include wetlands and fisheries. There are no surface water intakes within the 15 mile TDL. The potential area of observed contamination is underneath an asphalt cover and the surface water runoff will not come in contact with the contaminated soil, eliminating the overland flow component of the surface water pathway.

A sensitivity analysis was performed in order to determine how different scenarios would affect the site score and to assess the possibility of an observed release and actual contamination of targets. Only the groundwater and surface water pathways were considered in the exercise. The air pathway was not included due to a lack of documented air releases. The soil exposure pathway was not included in the sensitivity analysis since there are no targets available due to the presence of a building over the source area. The following scenarios were evaluated:

I) If there is a Level I release of 1,1,1-TCA to the groundwater at one of the on-site monitoring wells the groundwater pathway score would increase to 5.73 and the overall site score would increase to 2.87. If this were to occur, it would not be of concern in overall HRS scoring, as this falls below the required 28.5.

II) If there is a Level I release of 1,1,1,-TCA which is attributable to the Brockway Motor Truck site, 240 people (approximately 90 wells, 2.66 people/well) utilizing contaminated groundwater wells would be required in order to bring the groundwater pathway score to 57.20 and the overall site score to 28.60. A total of 8,400 people (approximately 3,158 wells, 2.66/well) exposed to a Level II observed release would be required in order to bring the groundwater pathway score to 59.03 and the overall site score to 29.52. This scenario is unlikely. Groundwater samples collected showed no detectable levels of 1,1,1-TCA. In addition, documenting Level I or Level II contamination to 90 or 3,158 wells would be practically impossible. In addition, attribution of 1,1,1-TCA contamination to the site would be difficult to establish as another source of 1,1,1-TCA exists in the vicinity of the site.

III) If there is an observed release of 1,1,1-TCA to the human food chain targets of the surface water pathway via the groundwater to surface water component, the surface water pathway would increase to 0.04 and the overall site score would not change. 1,1,1-TCA Bioaccumulation Potential Factor Value (BPFV) is less than 500.

If an observed release of 1,1,1-TCA is established, via the groundwater to surface water component, for the nearest wetland land located approximately 2.44 miles downstream of the PPE, the surface water pathway source would increase to 1.27 and the overall site score to 1.36. This scenario is not likely to occur. The dilution weight factors would minimize the likelihood of establishing an observed release to the nearest wetland. The flow rate of the river is 498 cfs.

Based on the existing information and the sensitivity analysis, a finding of No Further Remedial Action Planned (NFRAP) is recommended for the Brockway Motor Trucks site.

NPL Characteristics Data Collection Form
Brockway Motor Trucks - 09/19/95

Record Information

1. Site Name: Brockway Motor Trucks
   (as entered in CERCLIS)
2. Site CERCLIS Number: NYD980203111
3. Site Reviewer: Jeff Martin
4. Date: August 1995
5. Site Location: Cortland (Cortland County), New York
   (City/County,State)
6. Congressional District: 25
7. Site Coordinates: Single

   Latitude: 76 10'20.0" Longitude: 42 36'00.

Site Description

1. Setting: Urban
2. Current Owner: County
3. Current Site Status: Active
4. Years of Operation: Inactive Site,from and to dates: 1950 to 1975
5. How Initially Identified: CERCLA Notification
6. Entity Responsible for Waste Generation:

   - Manufacturing
     - Fabr. Struc. Metal Prod.
     - Other Manufacturing

7. Site Activities/Waste Deposition:

   - Other - Injection System
   - Drum/Container Storage
   - Tanks - Above Ground
   - Tanks - Below Ground

Waste Description

8. Wastes Deposited or Detected Onsite:

   - Organic Chemicals
   - Inorganic Chemicals
   - Solvents
   - Acids/Bases
   - Paints/Pigments

Response Actions

9. Response/Removal Actions:

   - Other Removal Action Has Occurred

RCRA Information

10. For All Active Facilities, RCRA Site Status:

    - Not Applicable

Demographic Information

11. Workers Present Onsite: Yes

12. Distance to Nearest Non-Worker Individual: > 10 Feet - 1/4 Mile

13. Residential Population Within 1 Mile: 13537.0

14. Residential Population Within 4 Miles: 29756.0

Water Use Information

15. Local Drinking Water Supply Source:

    - Ground Water (within 4 mile distance limit)

16. Total Population Served by Local Drinking Water Supply Source: 29700.0

17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:

- Municipal (Services over 25 People)
- Private

18. Surface Water Adjacent to/Draining Site:

- River

GROUND WATER MIGRATION PATHWAY SCORESHEET
Brockway Motor Trucks - 09/19/95

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Fill/Shallow Outwash		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	460
3. Likelihood of Release	550	460
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E-02
5. Hazardous Waste Quantity	*	10
6. Waste Characteristics	100	1
Targets		
7. Nearest Well	50	2.00E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	4.05E+02
8d. Population (lines 8a+8b+8c)	**	4.05E+02
9. Resources	5	5.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	4.30E+02
12. Targets (including overlaying aquifers)	**	4.30E+02
13. Aquifer Score	100	2.40
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	2.40

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Brockway Motor Trucks - 09/19/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release by Overland Flow		
2a. Containment	10	9
2b. Runoff	25	0
2c. Distance to Surface Water	25	6
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	54
3. Potential to Release by Flood		
3a. Containment (Flood)	10	0
3b. Flood Frequency	50	0
3c. Potential to Release by Flood (lines 3a x 3b)	500	0
4. Potential to Release (lines 2d+3c)	500	54
5. Likelihood of Release	550	54
Waste Characteristics		
6. Toxicity/Persistence	*	4.00E-01
7. Hazardous Waste Quantity	*	10
8. Waste Characteristics	100	1
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	5.00E+00
12. Targets (lines 9+10d+11)	**	5.00E+00
13. DRINKING WATER THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Brockway Motor Trucks - 09/19/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	54
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	2.00E+00
16. Hazardous Waste Quantity	*	10
17. Waste Characteristics	1000	2
Targets		
18. Food Chain Individual	50	0.00E+00
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	0.00E+00
19c. Pot. Human Food Chain Contamination	**	0.00E+00
19d. Population (lines 19a+19b+19c)	**	0.00E+00
20. Targets (lines 18+19d)	**	0.00E+00
21. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Brockway Motor Trucks - 09/19/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	54
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	2.00E+01
24. Hazardous Waste Quantity	*	10
25. Waste Characteristics	1000	3
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	0.00E+00
26c. Potential Contamination	**	1.05E-01
26d. Sensitive Environments (lines 26a+26b+26c)	**	1.05E-01
27. Targets (line 26d)	**	1.05E-01
28. ENVIRONMENTAL THREAT SCORE	60	0.00
29. WATERSHED SCORE	100	0.00
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Brockway Motor Trucks - 09/19/95

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: Fill/Shallow Outwash		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	460
3. Likelihood of Release	550	460
Waste Characteristics		
4. Toxicity/Mobility/Persistence	*	4.00E-03
5. Hazardous Waste Quantity	*	10
6. Waste Characteristics	100	1
Targets		
7. Nearest Intake	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	5.00E+00
10. Targets (lines 7+8d+9)	**	5.00E+00
11. DRINKING WATER THREAT SCORE	100	0.03

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Brockway Motor Trucks - 09/19/95

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550	460
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc.	*	2.00E-02
14. Hazardous Waste Quantity	*	10
15. Waste Characteristics	1000	1
Targets		
16. Food Chain Individual	50	0.00E+00
17. Population		
17a. Level I Concentrations	**	0.00E+00
17b. Level II Concentrations	**	0.00E+00
17c. Pot. Human Food Chain Contamination	**	1.50E-05
17d. Population (lines 17a+17b+17c)	**	1.50E-05
18. Targets (lines 16+17d)	**	1.50E-05
19. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Brockway Motor Trucks - 09/19/95

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	460
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc.	*	2.00E-01
22. Hazardous Waste Quantity	*	10
23. Waste Characteristics	1000	1
Targets		
24. Sensitive Environments		
24a. Level I Concentrations	**	0.00E+00
24b. Level II Concentrations	**	0.00E+00
24c. Potential Contamination	**	5.25E-02
24d. Sensitive Environments (lines 24a+24b+24c)	**	5.25E-02
25. Targets (line 24d)	**	5.25E-02
26. ENVIRONMENTAL THREAT SCORE	60	0.00
27. WATERSHED SCORE	100	0.03
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	0.03

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SOIL EXPOSURE PATHWAY SCORESHEET
Brockway Motor Trucks - 09/19/95

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	0
Waste Characteristics		
2. Toxicity	*	0.00E+00
3. Hazardous Waste Quantity	*	0
4. Waste Characteristics	100	0
Targets		
5. Resident Individual	50	0.00E+00
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	0.00E+00
7. Workers	15	0.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	0.00E+00
11. RESIDENT POPULATION THREAT SCORE	**	0.00E+00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

SOIL EXPOSURE PATHWAY SCORESHEET
Brockway Motor Trucks - 09/19/95

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	0.00E+00
13. Area of Contamination	100	0.00E+00
14. Likelihood of Exposure	500	0.00E+00
Waste Characteristics		
15. Toxicity	*	0.00E+00
16. Hazardous Waste Quantity	*	0
17. Waste Characteristics	100	0
Targets		
18. Nearby Individual	1	0.00E+00
19. Population Within 1 Mile	**	0.00E+00
20. Targets (lines 18+19)	**	0.00E+00
21. NEARBY POPULATION THREAT SCORE	**	0.00E+00
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

AIR PATHWAY SCORESHEET
Brockway Motor Trucks - 09/19/95

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	0
2b. Particulate Potential to Release	500	0
2c. Potential to Release	500	0
3. Likelihood of Release	550	0
Waste Characteristics		
4. Toxicity/Mobility	*	0.00E+00
5. Hazardous Waste Quantity	*	0
6. Waste Characteristics	100	0
Targets		
7. Nearest Individual	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	0.00E+00
10c. Sens. Environments(lines 10a+10b)	***	0.00E+00
11. Targets (lines 7+8d+9+10c)	**	0.00E+00
AIR MIGRATION PATHWAY SCORE (Sa)	100	0.00E+00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Contaminated soil

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	Contaminated soil	
b. Source Type	Contaminated Soil	
c. Secondary Source Type	N.A.	
d. Source Vol.(yd3/gal) | Source Area (ft2)	0.00	1.00
e. Source Volume/Area Value	2.94E-05	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	2.94E-05	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Trichloroethane, 1,1,1-	> 2	YES	9.3E-01	ppm

Documentation for Source Type:

In July 1987, NUS performed an SI. As a part of the SI, NUS collected samples from the wells installed around the removed UST and from soil locations throughout the site. The samples were analyzed for CLP parameters. Results from this sampling indicate the presence of 1,1,1-TCA at concentrations three times background in a soil sample collected from the site.

Reference: 17, pp. 1,3,5 of 8; 9, pp. 1-60 of 60

Documentation for Source Hazardous Substances:

Only 1,1,1-TCA has been assigned to the source. During a SI at the site, monitoring wells previously installed at the site were sampled. These monitoring wells were installed around a previously removed underground storage tank. Lead was found to be present at concentrations three times above background levels in samples collected from down gradient wells relative to the levels of the up gradient well sample. As there is no other possbile source for the lead, it is probable that the lead was associated with gasoline stored in the removed UST. It has been excluded from evaluation from the site due to the CERCLA petroluem exclusion. During the SI, 1,1,1-TCA (used at the site) was detected in an on-site soil sample at a concentration exceeding three times background (background: SS-01 was non-detect).

Reference: 17, pp. 3,5 of 8; 9, pp. 42, 48 of 60

Documentation for Source Area:

No source area can be documented for the sample (SS-02) used to characterize the source. The old drum storage area and the area of the 1987 TCA spill occured in the vicinity of the SS-03 soil sample location. TCA was not detected in this soil sample. A minimum value of 1 square foot has been assigned for evaluation purposes.

Reference: 30, p 2 of 4

WASTE QUANTITY
Brockway Motor Trucks - 09/19/95

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No.	Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1	Contaminated soil	GW-SW	2.94E-05	0.00E+00	2.94E-05

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E-02	10	1
SW: Overland Flow, DW	Tox./Persistence	4.00E-01	10	1
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	2.00E+00	10	2
SW: Overland Flow, Env	Etox./Persis./Bioacc.	2.00E+01	10	3
SW: GW to SW, DW	Tox./Persistence	4.00E-03	10	1
SW: GW to SW, HFC	Tox./Persis./Bioacc.	2.00E-02	10	1
SW: GW to SW, Env	Etox./Persis./Bioacc.	2.00E-01	10	1
Soil Exposure:Resident	Toxicity	0.00E+00	0	0
Soil Exposure: Nearby	Toxicity	0.00E+00	0	0
Air	Toxicity/Mobility	0.00E+00	0	0

* Hazardous Waste Quantity Factor Values
** Waste Characteristics Factor Category Values

Note: SW = Surface Water
GW = Ground Water
DW = Drinking Water Threat
HFC = Human Food Chain Threat
Env = Environmental Threat

GROUND WATER PATHWAY AQUIFER SUMMARY
Brockway Motor Trucks - 09/19/95

No.	Aquifer ID	Type	Overlaying No.	Inter-Connected with	Likelihood of Release	Targets
1	Fill/Shallow Outwash	Non K	0	0	460	4.30E+02
2	Lower Outwash Deposi	Non K	1	1	460	4.30E+02

Containment

No.	Source ID	HWQ Value	Containment Value
1	Contaminated soil	2.94E-05	10
	Containment Factor		10

Documentation for Ground Water Containment, Source Contaminated soil:

There is no evidence of a liner or other containment for the contaminated soil. A groundwater containment factor of 10 was chosen.

Reference: 17, pp. 1-4, 6-8 of 8

Net Precipitation

Net Precipitation (inches)	N.A.

Documentation for Net Precipitation:

The net precipitation factor was chosen from HRS Figure 3-2.

Reference: 1, p. 1 of 1

GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Fill/Shallow Outwash AQUIFER
Brockway Motor Trucks - 09/19/95

Aquifer: Fill/Shallow Outwash

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for Fill/Shallow Outwash Aquifer:

The fill/shallow outwash aquifer is an average of 44 feet thick and consists of sand, gravel, silt, and trace cinders. In the East Branch and Tioughnioga River valleys, the outwash forms a water-table aquifer consisting of variably silty sand and gravel. These deposits have a conductivity value of 1 X 10-4. Groundwater flow direction is generally toward the Tioughnoiga River, toward the east.

Underlying the fill/shallow outwash deposits are Lacustrine deposits. These deposits consist of silt and clay. The depth of the Lacustrine deposits vary, but the average thickness has been estimated to be 95 feet. These deposits have a conductivity value of 1 X 10-6 and are not known to be used for drinking water purposes.

Reference: 17, pp. 5-8 of 8; 19, 1-3 of 3; 20, pp. 1-8,12-16,18-20 of 20

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination

- N/A and/or data not specified

Observed Release Factor 0

GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Fill/Shallow Outwash AQUIFER
Brockway Motor Trucks - 09/19/95

POTENTIAL TO RELEASE

Containment

Containment Factor	10	

Net Precipitation

Net Precipitation Factor	6	

Depth to Aquifer

A. Depth of Hazardous Substances	1.00	feet

Documentation for Depth of Hazardous Substances:

The exact depth of contamination is not known. The depth at which sample SS-02 was collected is unknown. A depth of 1 feet has been assigned to the contamination.

Reference: 30, pp. 1-4 of 4

B. Depth to Aquifer from Surface	0.00	feet

Documentation for Depth to Aquifer from Surface :

This aquifer starts at the surface.

Additional References: 20, pp. 1-7, 14-16, 18, 19 of 20

Reference: 17, pp. 5-8 of 8; 19, pp. 1-3 of 3

C. Depth to Aquifer (B - A)	0.00	feet

Depth to Aquifer Factor 5

Travel Time

Are All Layers Karst? NO

Documentation for Karst Layers:

This aquifer is not known to be karst.

Additional References:

Reference: 17, pp. 5-8 of 8; 19, pp. 1-3 of 3

Thickness of Layer(s) with Lowest Conductivity 0.00 feet

Documentation for Thickness of Layers with Lowest Conductivity:

A value of zero has been entered for the thickness of the layer between the contamination and top of the aquifer, since the contamination is located within the upper boundaries of the aquifer.

Additional References: 20, pp. 1-7, 14-16, 18, 19 of 20

Reference: 17, pp. 5-8 of 8 ; 19, pp. 1-3 of 3

Hydraulic Conductivity (cm/sec) 0.0E-00

Documentation for Hydraulic Conductivity:

A hydraulic conductivity of 0 was assigned as there is no layer with between the depth of hazardous substances and the aquifer being evaluated.

GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Fill/Shallow Outwash AQUIFER
Brockway Motor Trucks - 09/19/95

Reference: 1, p. 1 of 1

Travel Time Factor	35
Potential to Release Factor	460

GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Lower Outwash Deposits AQUIFER
Brockway Motor Trucks - 09/19/95

Aquifer: Lower Outwash Deposits

Type of Aquifer: Non Karst

Overlaying Aquifer: 1

Interconnected with: 1

Documentation for Lower Outwash Deposits Aquifer:

The Lower Outwash Deposits consists of sand and gravel, and underlies the Lacustrine Deposits. This aquifer has an average thickness of 80 feet. The Lacustrine Deposits separate the Lower Outwash Aquifer from the Fill/Surficial Outwash Deposits at the site. Drinking water supply wells are completed in this aquifer. The lower outwash deposits have a conductivity value of 1 X 10-4 and has a general flow direction toward the Tioughnioga River.

Underlying the lower outwash formation is the Till/Genesee Group consisting of silt and clay with sand and gravel and shale. This group extends across the valley and is the bedrock layer across the valley. The average thickness of the group is >100 feet. Its conductivity value is 1 X 10-8. It is not known to be utilized for drinking water purposes.

Reference: 1, p. 1 of 1; 15, p. 2 of 3; 20, pp. 1-10, 12, 14, 17 of 20

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination

- N/A and/or data not specified

Observed Release Factor 0

POTENTIAL TO RELEASE

Containment

Containment Factor	10	

Net Precipitation

Net Precipitation Factor	6	

Depth to Aquifer

A. Depth of Hazardous Substances	1.00	feet

Documentation for Depth of Hazardous Substances:

The exact depth of the contamination is not known. The depth at which sample SS-02 was collected is unknown. A depth of 1 feet has been assigned for depth of contamination.

Reference: 30, pp. 1-4 of 4

B. Depth to Aquifer from Surface	139.00	feet

Documentation for Depth to Aquifer from Surface :

The Fill/Surficial Outwash Deposit and the Lacustrine Deposits overlie the Lower Outwash Deposits. The total thickness of these deposits is 139 feet. A value 139 feet has been assigned as the depth to the top of the aquifer.

Additional References: 20, pp. 1-9, 14-16, 18, 19 of 20

Reference: 17, pp. 5-8 of 8; 19, pp. 1-3 of 3

C. Depth to Aquifer (B - A)	138.00	feet
Depth to Aquifer Factor	3	

Travel Time

Are All Layers Karst?	NO

Documentation for Karst Layers:

There are no known karst layers in between the contamination and the top of the lower outwash deposits aquifer.

Additional References: 20, pp. 1-9, 14-16, 18, 19 of 20

Reference: 17, pp. 5-8 of 8; 19, pp. 1-3 of 3

Thickness of Layer(s) with Lowest Conductivity	95.00	feet

Documentation for Thickness of Layers with Lowest Conductivity:

The layer with the lowest hydraulic conductivity is the Lacustrine Deposits. The average thickness of the layer is 95 feet.

Reference: 20, pp. 1-9 of 20

Hydraulic Conductivity (cm/sec)	1.0E-06

Documentation for Hydraulic Conductivity:

A hydraulic conductivity of 1.0E-06 was taken from HRS Table 3-6 based on the soil type (silts and clays).

Reference: 1, p. 1 of 1

Travel Time Factor	15

Potential to Release Factor	240

Source: 1 Contaminated soil

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Trichloroethane, 1,1,1-	1	1.00E-02	1.00E-02

Hazardous Substances Found in an Observed Release

Well No.	Observed Release Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value

- N/A and/or data not specified

Toxicity/Mobility Value from Source Hazardous Substances:	1.00E-02
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	1.00E-02
Sum of Source Hazardous Waste Quantity Values:	2.94E-05
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	1

GROUND WATER PATHWAY TARGETS FOR AQUIFER Fill/Shallow Outwash
Brockway Motor Trucks - 09/19/95

Population by Well

No.	Well ID	Sample Type	Distance (miles)	Level of Contamination	Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

GROUND WATER PATHWAY TARGETS FOR AQUIFER Fill/Shallow Outwash
Brockway Motor Trucks - 09/19/95

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	0.0	0.00E+00
> 1/4 to 1/2	3.0	2.00E-01
> 1/2 to 1	46.0	1.70E+00
> 1 to 2	20734.0	2.94E+02
> 2 to 3	3026.0	6.78E+01
> 3 to 4	7791.0	4.17E+01

Potential Contamination Factor: 405.000

Documentation for Target Population > 0 to 1/4 mile Distance Category:

There are no known private or municipal drinking water wells within the 0 to 0.25 mile radius from the site.

Reference: 5, p. 10 of 10; 15, pp. 1-3 of 3

Documentation for Target Population > 1/4 to 1/2 mile Distance Category:

A population of 3 people were determined to be on private wells in the 0.25 to 0.5 mile radius from the site. There are no municipal wells within this radius. It is assumed that all private wells are completed in the shallow aquifer.

Reference: 5, p. 10 of 10; 15, pp. 1-3 of 3

Documentation for Target Population > 1/2 to 1 mile Distance Category:

A population of 46 people were determined to be on private wells in the 0.5 to 1.0 mile radius from the site. There are no municipal wells within this radius. It is assumed that all private wells are completed in the shallow aquifer.

Reference: 5, p. 9 of 10; 15, pp. 1-3 of 3

Documentation for Target Population > 1 to 2 miles Distance Category:

A population of 734 people were determined to be on private wells as well as 20,000 people from public water supply wells in the 1.0 to 2.0 mile radius from the site. It is assumed that all private wells are completed in the shallow aquifer.

The Cortland Water Board serves a total of 20,000 people with Wells #3, #4 and #5 located approximately 1.25 miles, 1.3 miles and 1.3 miles, respectively from the site. These wells are finished in the shallow aquifer.

Reference: 5, p. 9 of 10; 15, p. 1 of 3

Documentation for Target Population > 2 to 3 miles Distance Category:

A population of 1026 people were determined to be on private wells as well as 2,000 people from public water supply wells in the 2.0 to 3.0 mile radius from the site. It is assumed that all private wells are completed in the shallow aquifer.

The Cortlandville Water Department serves a total of 4,000 people via four groundwater wells. Three of these wells are located within this radius approximately 2.5 miles from the site. Well #3 supplies approximately 25% of the total water supply, Well #2 supplies approximately 12% of the total water supply and Well #1 supplies approximately 13% of the total water supply for the 4,000 people. A ll three wells are completed in the shallow aquifer.

Reference: 5, p. 9 of 10; 15, p. 1 of 3; 31, p. 2 of 8

Documentation for Target Population > 3 to 4 miles Distance Category:

A population of 1391 people were determined to be on private wells as well as 6,400 people from public water suppply wells in the 3.0 to 4.0 mile radius from the site. It is assumed that all private wells are completed in the shallow aquifer.

Two municipal supply wells are located within this radius. The Lime Hollow well is one of four wells utilzed by the Cortlandville Water Department to supply a total of 4,000 people. This well is located approximately 3.8 miles from the site and supplies 50% of Cortlandville's total water supply. The Homer Well #3 is used by the Newton Water Works for 100% of their water supply distributed to 4,400 people. The well is located approximately 3.1 miles from the site. Both municipal supply wells are completed in the shallow aquifer.

Reference: 5, p. 9 of 10; 15, 1, 2 of 3; 31, p. 5 of 8

Nearest Well

Level of Contamination: Potential
Distance in miles: 0.25

Nearest Well Factor: 2.00E+01

Documentation for Nearest Well:

There are approximately 3 people utilizing private wells within the 0.25 to 0.5 mile radius of the site. Although the exact location of the well(s) has not been determined, the distance to the nearest well has been assigned a value of 0.25 mile.

Reference: 5, p. 10 of 10

Resources

Resource Use: YES

Resource Factor: 5.00E+00

Documentation for Resources:

The groundwater is used for watering of commercial dairy cows.

Reference: 28, p. 1 of 1

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

Documentation for Wellhead Protection Area:

There is no wellhead protection area for the municipal water supply wells within the four mile TDL.

Reference: 28, p. 1 of 1

Population by Well

No.	Well ID	Sample Type	Distance (miles)	Level of Contamination	Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

GROUND WATER PATHWAY TARGETS FOR AQUIFER Lower Outwash Deposits
Brockway Motor Trucks - 09/19/95

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	0.0	0.00E+00
> 1/4 to 1/2	0.0	0.00E+00
> 1/2 to 1	0.0	0.00E+00
> 1 to 2	0.0	0.00E+00
> 2 to 3	0.0	0.00E+00
> 3 to 4	1300.0	1.31E+01

Potential Contamination Factor: 13.000

Documentation for Target Population > 3 to 4 miles Distance Category:

No private wells were determined to be drawing water from this aquifer. However, the Village of McGraw supplies water to 1,300 people via two municipal supply wells located approximately 3.8 miles from the site. These wells withdraw water from the lower outwash aquifer.

Reference: 15, p. 2 of 3; 31, p. 7 of 8

Nearest Well

Level of Contamination: Potential
Distance in miles: 3.80

Nearest Well Factor: 2.00E+00

Documentation for Nearest Well:

There are two municipal supply wells withdrawing water from the lower outwash, approximately 3.8 miles from the site.

Reference: 15, p. 2 of 3

Resources

Resource Use: NO

Resource Factor: 0.00E+00

Documentation for Resources:

Reference:

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

Documentation for Wellhead Protection Area:

There is no wellhead protection area for the municipal wells within the 4-mile TDL.

Reference: 28; p. 1 of 1

SURFACE WATER PATHWAY SEGMENT SUMMARY
Brockway Motor Trucks - 09/19/95

No.	Segment ID	Segment Type	Water Type	Start Point (mi)	End Point (mi)	Average Flow (cfs)
1	Tioughnioga River	River	Fresh	-0.50	15.00	498

Documentation for segment: Tioughnioga River:

The surface runoff from the site will drain into the storm sewer, which runs eastward toward the Tioughnioga River. The outfall of the storm sewer into the Tioughnioga River is due east of the site and is the Probable Point of Entry (PPE) for the overland flow component of the surface water pathway. The PPE of the groundwater to surface water flow component is approximately 0.5 miles upstream from the overland flow component PPE.

This segment covers the entire 15 mile Target Distance Limit (TDL) for the surface water pathway. There are no major streams or rivers combining with the Tioughnioga River within the 15 mile TDL. There also is no obvious major change in flow on the Tioughnioga River.

There is a USGS gauging station approximately one block up stream from the PPE. The average annual mean flow rate for this station was 498 cubic feet-per-second (cfs). This annual flow rate has been assigned for this entire segment.

Reference: 10, p. 3 of 3; 4, p. 1 of 1

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Brockway Motor Trucks - 09/19/95

OBSERVED RELEASE

No.	Sample ID	Sample Type	Distance (miles)	Level of Contamination DW	HFC	Env

- N/A and/or data not specified

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Observed Release Factor 0

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Brockway Motor Trucks - 09/19/95

POTENTIAL TO RELEASE

Potential to Release by Overland Flow

Containment

No.	Source ID	HWQ Value	Containment Value
1	Contaminated soil	2.94E-05	9

Containment Factor: 9

Documentation for Overland Flow Containment, Source Contaminated soil:

The sample (SS-02) used to characterize the source was collected from an area which is currently covered by a building. Although there is no evidence of hazardous substance migration or no functioning and maintained run-on control system or a leachate collection system, the presence of the building functions as a maintained engineered cover. A containment factor value of 9 has been chosen as per CFR Table 3-2.

Reference: 1, p. 1 of 1; 8, p. 13 of 38; 30, p. 2 of 4

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Brockway Motor Trucks - 09/19/95

Distance to Surface Water

Distance to Surface Water: 2900.0 feet

Distance to Surface Water Factor: 6

Documentation for Distance to Surface Water:

The distance to the eastern edge of the property straight along Central Avenue to the Tioughnioga River on the 7.5 minute series USGS topo map.

Reference: 3, p. 1 of 1

Runoff

A. Drainage Area: 24.4 acres

Documentation for Drainage Area:

The drainage area of the site was taken to be the total area of the site. The site is surrounded by roads or railroad tracks. There will be no additional runoff onto the site.

Reference: 3, p. 1 of 1

B. 2-year, 24-hour Rainfall: 3.0 inches

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Brockway Motor Trucks - 09/19/95

Documentation for Rainfall:

The 2-year, 24-hour rainfall for the site was taken from the Rainfall Frequency Atlas.

Reference: 18, p. 2 of 2

C. Soil Group: A
Coarse-textured soils with high infiltration rates

Documentation for Soil Group:

Course textured soil with a high filtration rate was chosen based on the soil boring logs from the installation of the monitoring wells.

Reference: 17, pp. 6-8 of 8

Runoff Factor: 0

==========

Potential to Release by Overland Flow Factor: 54

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Brockway Motor Trucks - 09/19/95

Potential to Release by Flood

No.	Source ID	HWQ Value	Flood Containment Value	Flood Frequency Value	Potential to Release by Flood
- N/A and/or data not specified					

Potential to Release by Flood Factor: 0

Documentation for Flood Containment, Source Contaminated soil:

The sample (SS-02) used to characterize the source was collected from an area currently covered by a building. As per CFR Table 4-8, the building acts as a designed, constructed, operated and maintained to prevent a washout of hazardous substances by the flood.

Reference: 1, p. 1 of 1; 8, p. 13 of 38; 30, p. 2 of 4

Documentation for Flood Frequency, Source Contaminated soil:

The entire source is outside the 500-year flood plain.

Reference: 7, p. 3 of 3

Source: 1 Contaminated soil

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Trichloroethane, 1,1,1-	1	4.00E-01	4.00E-01

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value

- N/A and/or data not specified

SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Toxicity/Persistence Value from Source Hazardous Substances:	4.00E-01
Toxicity/Persistence Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence Factor:	4.00E-01
Sum of Source Hazardous Waste Quantity Values:	2.94E-05
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	1

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Brockway Motor Trucks - 09/19/95

Level I Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Brockway Motor Trucks - 09/19/95

Level II Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Brockway Motor Trucks - 09/19/95

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
- N/A and/or data not specified		

Type of Surface Water Body	Total Population	Dilution-Weighted Population
- N/A and/or data not specified		

Dilution-Weighted Population Served
by Potentially Contaminated Intakes: 0.0

Potential Contamination Factor: 0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: YES

Resource Value: 5.00E+00

Documentation for Resources:

The Tioughnioga River is utilized as a resource since it is a fresh water fishery.

Reference: 11, pp. 1, 3 of 3

SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Source: 1 Contaminated soil

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Trichloroethane, 1,1,1-	1	4.00E-01	5.00E+00	2.00E+00

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value

- N/A and/or data not specified

SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	2.00E+00
Toxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence/Bioaccumulation Factor:	2.00E+00
Sum of Source Hazardous Waste Quantity Values:	2.94E-05
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	2

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Brockway Motor Trucks - 09/19/95

Level I Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
- N/A and/or data not specified		

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
- N/A and/or data not specified		

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Brockway Motor Trucks - 09/19/95

Potential Contamination

Fishery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
- N/A and/or data not specified						

Sum of (Pi*Di): 0.00E+00

Potential Human Food Chain Contamination Factor: 0.00E+00

Documentation for Tioughnioga River Fishery:

The east branch of the Tioughnioga River is stocked with brown trout. Production values were not available. A production value of 1 pound of fish per year has been assigned for evaluation purposes.

Reference: 11, p. 3 of 3

Food Chain Individual

Location of Nearest Fishery: N.A.

Food Chain Individual Factor: 0.00

SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Source: 1 Contaminated soil

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Trichloroethane, 1,1,1-	10	4.00E-01	5.00E+00	2.00E+01

SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value

- N/A and/or data not specified

SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Ecotoxicity/Persistence/Bioaccummulation Value from Source Hazardous Substances:	2.00E+01
Ecotoxicity/Persistence/Bioaccummulation Value from Observed Release Hazardous Substances:	0.00E+00
Ecotoxicity/Persistence/Bioaccummulation Factor:	2.00E+01
Sum of Source Hazardous Waste Quantity Values:	2.94E-05
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	3

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Brockway Motor Trucks - 09/19/95

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Brockway Motor Trucks - 09/19/95

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment		Sensitive Environment Value
River	20	Tioughnioga River	5

Wetlands

Type of Surface Water Body	Sensitive Environment		Wetlands Frontage	Wetlands Value
River	1	PFO1A	0.20	25
River	2	R2USA	0.30	25
River	3	P(FO/EM)1A	0.10	25
River	4	P(FO/EM)1A	0.10	25
River	5	P(EM/FO)1A	0.48	25
River	6	P(EM/SS)1A	0.20	25
River	7	R2USA	0.24	25
River	8	R2USA	0.20	25
River	9	R2USA	0.12	25
River	10	PFO1A	0.36	25
River	11	R4SBC	0.16	25
River	12	PSS1A	0.20	25
River	13	R2USA	0.20	25
River	14	R2USA	0.10	25
River	15	PSS1A	0.20	25
River	16	PSS1A	0.10	25
River	17	PFO1A	0.10	25
River	18	R2USA	0.28	25
River	19	PFO1A	0.10	25

Documentation for Sensitive Environment PFO1A:

Qualifying wetland was located on NWI quad amps. Linear frontage and the distance from the PPE were measured using a map wheel. One linear mile on the USGS 7.5 minute based maps = 2.5 map wheel units (MWU). Linear frontage measurements were begun at the first point of the wetland and ended at the endpoint of the wetland fronting the Tioughnioga River, for a total frontage value of 0.5 MWU or 0.2 miles. The distance from the PPE was approximately 2.44 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.75 MWU or 0.3 miles. The distance from the PPE was approximately 4.46 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment P(FO/EM)1A:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was approximately 5.86 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment P(FO/EM)1A:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was approximately 6.06 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment P(EM/FO)1A:

The total frontage value was 1.2 MWU or 0.48 miles. The distance from the PPE was approximately 6.14 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment P(EM/SS)1A:

The total frontage value was 0.5 MWU or 0.2 miles. The distance from the PPE was approximately 7.14 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.6 MWU or 0.24 miles. The distance from the PPE was approximately 8.86.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.5 MWU or 0.2 miles. The distance from the PPE was 9.0 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.3 or 0.12 miles. The distance from the PPE was approximately 9.68 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PFO1A:

The total frontage value was 0.9 MWU or 0.36 miles. The distance from the PPE was 10.5 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R4SBC:

The total frontage value was 0.4 MWU or 0.16 miles. The distance from the PPE was approximately 12.22 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PSS1A:

The total frontage value was 0.5 MWU or 0.2 miles. The distance from the PPE was 12.36 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.5 MWU or 0.2 miles. The distance from the PPE was 12.38 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was 12.42 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PSS1A:

The total frontage value was 0.5 MWU or 0.2 miles. The distance from the PPE was approximately 12.9 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PSS1A:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was approximately 13.1 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PFO1A:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was approximately 13.2 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.7 MWU or 0.28 miles. The distance from the PPE was approximately 13.3 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PFO1A:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was approximately 13.94 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment Tioughnioga River:

The Tioughnioga is classified as a Class B fresh surface water. This is a state designated area for the protection or maintenance of aquatic life. As per HRS Table 4-23, it is assigned a value of 5.

Reference: 1, p. 1 of 1; 32, p. 2 of 2

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Brockway Motor Trucks - 09/19/95

Type of Surface Water Body	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj)	Dilution Weight (Dj)	Dj(Wj+Sj)
Moderate to Large Stream	5	100	1.00E-02	1.05E+00

Sum of Dj(Wj+Sj): 1.05E+00
Sum of Dj(Wj+Sj)/10: 1.05E-01

Potential Contamination Sensitive Environment Factor: 1.05E-01

SURFACE WATER PATHWAY GW TO SW CONTAINMENT SUMMARY
Brockway Motor Trucks - 09/19/95

Containment

No.	Source ID	HWQ Value	Containment Value
1	Contaminated soil	2.94E-05	10
	Containment Factor		10

Documentation for Ground Water Containment, Source Contaminated soil:

There is no evidence of a liner or other containment for the contaminated soil. A groundwater containment factor of 10 was chosen.

Reference: 17, pp. 1-4, 6-8 of 8

Net Precipitation

Net Precipitation (inches)	0.00

Documentation for Net Precipitation:

The net precipitation factor was chosen from HRS Figure 3-2.

Reference: 1, p. 1 of 1

Aquifer: Fill/Shallow Outwash

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for Fill/Shallow Outwash Aquifer:

The fill/shallow outwash aquifer is an average of 44 feet thick and consists of sand, gravel, silt, and trace cinders. In the East Branch and Tioughnioga River valleys, the outwash forms a water-table aquifer consisting of variably silty sand and gravel.. These deposits have a conductivity value of 1 X 10-4. Groundwater flow direction is generally toward the Tioughnoiga River, toward the east.

Underlying the fill/shallow outwash deposits are Lacustrine deposits. These deposits consist of silt and clay. The depth of the Lacustrine deposits vary, but the average thickness has been estimated to be 95 feet. These deposits have a conductivity value of 1 X 10-6 and are not known to be used for drinking water purposes.

Reference: 17, pp. 5-8 of 8; 19, 1-3 of 3; 20, pp. 1-8,12-16,18-20 of 20

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination

- N/A and/or data not specified

Observed Release Factor 0

POTENTIAL TO RELEASE

Ground Water to Surface Water Angle

Probable Point of Entry	-0.50	miles
Angle Theta	175	

Documentation for Ground to Surface Water PPE and Angle Theta:

The Probable Point of Entry (PPE) of the ground water to surface water is approximately 0.5 miles upstream from the PPE for the surface water segment. The angle theta was taken to be the angle made between the two points at the intersection of the Tioughnioga River and the 1 mile radius and the center of the site. This angle was measured by hand from the 4-mile radius map.

Reference: 3, p. 1 of 1; 20, p. 20 of 20

Containment

Containment Factor	10	

Net Precipitation

Net Precipitation Factor	6	

Depth to Aquifer

A. Depth of Hazardous Substances	1.00	feet

Documentation for Depth of Hazardous Substances:

The exact depth of contamination is not known. The depth at which sample SS-02 was collected is unknown. A depth of 1 feet has been assigned to the contamination.

Reference: 30, pp. 1-4 of 4

B. Depth to Aquifer from Surface	0.00	feet

Documentation for Depth to Aquifer from Surface :

This aquifer starts at the surface.

Additional References: 20, pp. 1-7, 14-16, 18, 19 of 20

Reference: 17, pp. 5-8 of 8; 19, pp. 1-3 of 3

C. Depth to Aquifer (B - A)	0.00	feet
Depth to Aquifer Factor	5	

Travel Time

Are All Layers Karst?	NO

Documentation for Karst Layers:

This aquifer is not known to be karst.

Additional References:

Reference: 17, pp. 5-8 of 8; 19, pp. 1-3 of 3

Thickness of Layer(s) with Lowest Conductivity	0.00	feet

Documentation for Thickness of Layers with Lowest Conductivity:

A value of zero has been entered for the thickness of the layer between the contamination and top of the aquifer, since the contamination is located within the upper boundaries of the aquifer.

Additional References: 20, pp. 1-7, 14-16, 18, 19 of 20

Reference: 17, pp. 5-8 of 8 ; 19, pp. 1-3 of 3

Hydraulic Conductivity (cm/sec)	0.0E-00

Documentation for Hydraulic Conductivity:

A hydraulic conductivity of 0 was assigned as there is no layer with between the depth of hazardous substances and the aquifer being evaluated.

Reference: 1, p. 1 of 1

Travel Time Factor	35

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Potential to Release Factor	460

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Source: 1 Contaminated soil

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobililty/ Persistence
Trichloroethane, 1,1,1-	1	4.00E-01	1.00E-02	4.00E-03

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Factor Value	Persist. Value	Toxicity/ Persistence

- N/A and/or data not specified

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Toxicity/Mobility/Persistence Value from Source Hazardous Substances:	4.00E-03
Toxicity/Mobility/Persistence Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility/Persistence Factor:	4.00E-03
Sum of Source Hazardous Waste Quantity Values:	2.94E-05
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	1

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

Level I Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

Level II Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
- N/A and/or data not specified		

Type of Surface Water Body	Total Population	Dilution-Weighted Population
- N/A and/or data not specified		

Dilution-Weighted Population Served by Potentially Contaminated Intakes: 0.0

Potential Contamination Factor: 0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: YES

Resource Value: 5.00E+00

Documentation for Resources:

The Tioughnioga River is utilized as a resource since it is a fresh water fishery.

Reference: 11, pp. 1, 3 of 3

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Source: 1 Contaminated soil

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio-accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
Trichloroethane, 1,1,1-	1	4.00E-01	1.00E-02	5.00E+00	2.00E-02

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Value	Persist. Value	Bio-accum. Value	Toxicity/ Persistence Bioaccum. Value

- N/A and/or data not specified

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Toxicity/Mobility/Persistence/Bioaccumulation Value from Source Hazardous Substances:	2.00E-02
Toxicity/Mobility/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility/Persistence/Bioaccumulation Factor:	2.00E-02
Sum of Source Hazardous Waste Quantity Values:	2.94E-05
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	1

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

Level I Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
- N/A and/or data not specified		

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
- N/A and/or data not specified		

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Fishery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
1 Tioughnioga River	1.0	River	498	0.0	5.00E-03	1.50E-04

Sum of (Pi*Di): 1.50E-04

Potential Human Food Chain Contamination Factor: 1.50E-05

Documentation for Tioughnioga River Fishery:

The east branch of the Tioughnioga River is stocked with brown trout. Production values were not available. A production value of 1 pound of fish per year has been assigned for evaluation purposes.

Reference: 11, p. 3 of 3

Food Chain Individual

Location of Nearest Fishery: Tioughnioga River
Distance from the Probable Point of Entry: -0.50 miles
Type of Surface Water Body: River
Dilution Weight: 0.0050000
Level of Contamination: Potential

Food Chain Individual Factor: 0.00

Documentation for Tioughnioga River:

The surface runoff from the site will drain into the storm sewer, which runs eastward toward the Tioughnioga River. The outfall of the storm sewer into the Tioughnioga River is due east of the site and is the Probable Point of Entry (PPE) for the overland flow

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Source: 1 Contaminated soil

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco-toxicity Value	Persist. Value	Mob. Value	Bio-accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
Trichloroethane, 1,1,1-	10	4.00E-01	1.00E-02	5.00E+00	2.00E-01

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Eco-toxicity Value	Persist. Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
- N/A and/or data not specified				

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Brockway Motor Trucks - 09/19/95

Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Source Substances:	2.00E-01
Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Observed Hazardous Substances:	0.00E+00
Ecotoxicity/Mobility/Persistence/Bioaccummulation Factor:	2.00E-01
Sum of Source Hazardous Waste Quantity Values:	2.94E-05
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	1

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS
Brockway Motor Trucks - 09/19/95

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment		Sensitive Environment Value
River	20	Tioughnioga River	5

Wetlands

Type of Surface Water Body	Sensitive Environment		Wetlands Frontage	Wetlands Value
River	1	PFO1A	0.20	25
River	2	R2USA	0.30	25
River	3	P(FO/EM)1A	0.10	25
River	4	P(FO/EM)1A	0.10	25
River	5	P(EM/FO)1A	0.48	25
River	6	P(EM/SS)1A	0.20	25
River	7	R2USA	0.24	25
River	8	R2USA	0.20	25
River	9	R2USA	0.12	25
River	10	PFO1A	0.36	25
River	11	R4SBC	0.16	25
River	12	PSS1A	0.20	25
River	13	R2USA	0.20	25
River	14	R2USA	0.10	25
River	15	PSS1A	0.20	25
River	16	PSS1A	0.10	25
River	17	PFO1A	0.10	25
River	18	R2USA	0.28	25
River	19	PFO1A	0.10	25

Documentation for Sensitive Environment PFO1A:

Qualifying wetland was located on NWI quad amps. Linear frontage and the distance from the PPE were measured using a map wheel. One linear mile on the USGS 7.5 minute based maps = 2.5 map wheel units (MWU). Linear frontage measurements were begun at the first point of the wetland and ended at the endpoint of the wetland fronting the Tioughnioga River, for a total frontage value of 0.5 MWU or 0.2 miles. The distance from the PPE was approximately 2.44 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.75 MWU or 0.3 miles. The distance from the PPE was approximately 4.46 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment P(FO/EM)1A:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was approximately 5.86 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment P(FO/EM)1A:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was approximately 6.06 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment P(EM/FO)1A:

The total frontage value was 1.2 MWU or 0.48 miles. The distance from the PPE was approximately 6.14 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment P(EM/SS)1A:

The total frontage value was 0.5 MWU or 0.2 miles. The distance from the PPE was approximately 7.14 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.6 MWU or 0.24 miles. The distance from the PPE was approximately 8.86.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.5 MWU or 0.2 miles. The distance from the PPE was 9.0 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.3 or 0.12 miles. The distance from the PPE was approximately 9.68 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PFO1A:

The total frontage value was 0.9 MWU or 0.36 miles. The distance from the PPE was 10.5 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R4SBC:

The total frontage value was 0.4 MWU or 0.16 miles. The distance from the PPE was approximately 12.22 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PSS1A:

The total frontage value was 0.5 MWU or 0.2 miles. The distance from the PPE was 12.36 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.5 MWU or 0.2 miles. The distance from the PPE was 12.38 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was 12.42 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PSS1A:

The total frontage value was 0.5 MWU or 0.2 miles. The distance from the PPE was approximately 12.9 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PSS1A:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was approximately 13.1 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PFO1A:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was approximately 13.2 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment R2USA:

The total frontage value was 0.7 MWU or 0.28 miles. The distance from the PPE was approximately 13.3 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment PFO1A:

The total frontage value was 0.25 MWU or 0.1 miles. The distance from the PPE was approximately 13.94 miles.

Reference: 4, p. 1 of 1

Documentation for Sensitive Environment Tioughnioga River:

The Tioughnioga is classified as a Class B fresh surface water. This is a state designated area for the protection or maintenance of aquatic life. As per HRS Table 4-23, it is assigned a value of 5.

Reference: 1, p. 1 of 1; 32, p. 2 of 2

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS

Brockway Motor Trucks - 09/19/95

Type of Surface Water Body	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj)	Dilution Weight (Dj)	Dj(Wj+Sj)
Moderate to Large Stream	5	100	5.00E-03	5.25E-01

Sum of Dj(Wj+Sj): 5.25E-01

Sum of Dj(Wj+Sj)/10: 5.25E-02

Potential Contamination Sensitive Environment Factor: 5.25E-02